Just-In-Time Access to Interstate Data

Technical Status

August 26, 2004

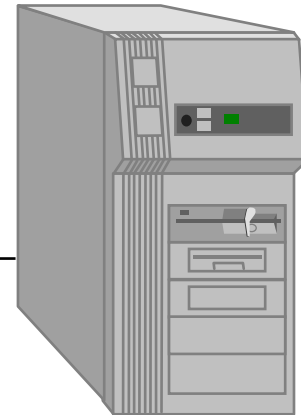# Agenda

- Review of High Level Design
- Data Flow Diagrams
- Questions and Answers
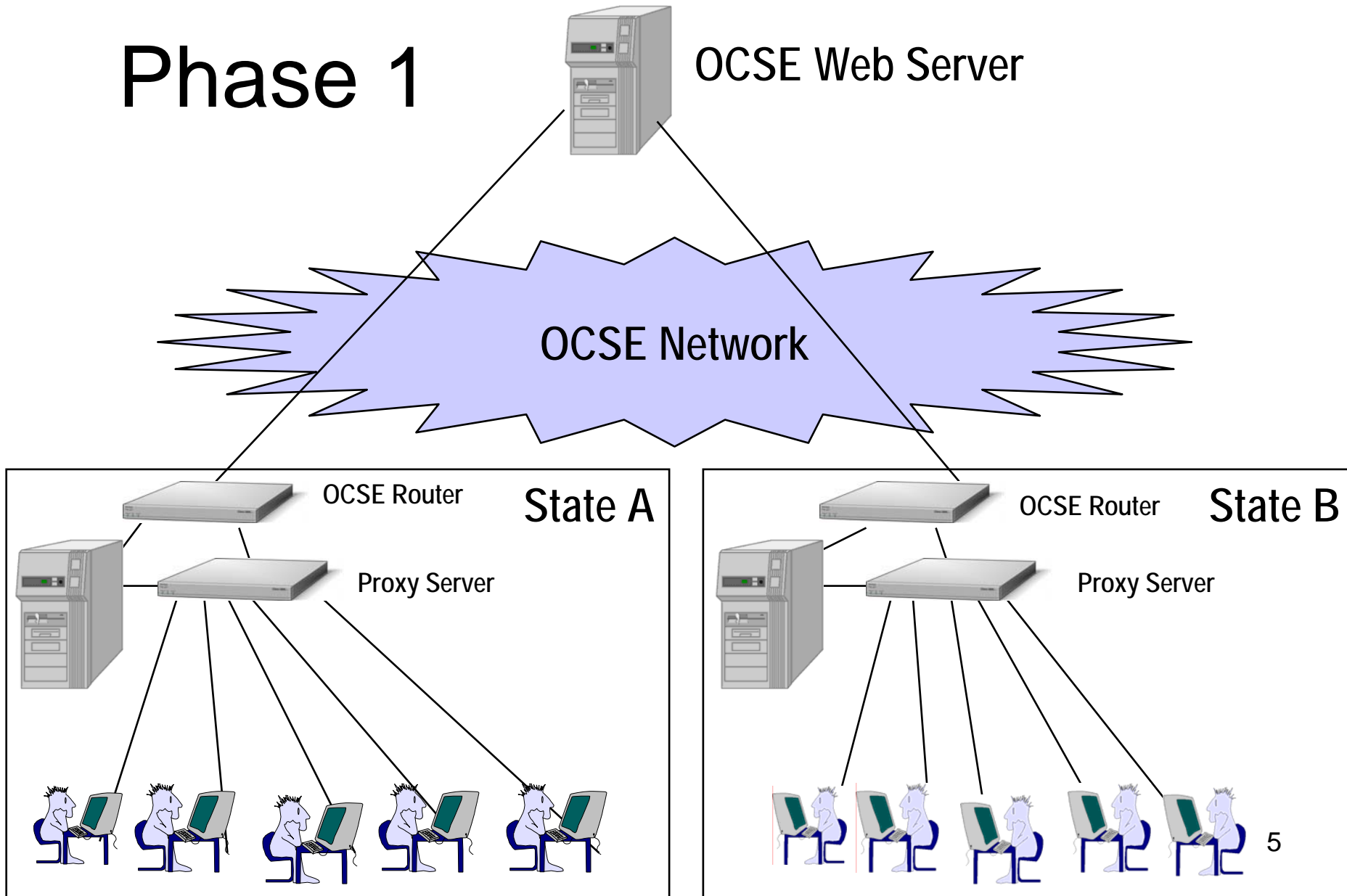
Goal

State A

State B

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Assumptions

- Data should remain in a distributed fashion.
- A web browser will be used to view data and the display will be the same for all users.
- Transmission of data will be secure.
- All users will have to be authenticated and authorized.
- States will maintain authentication information on their own users.
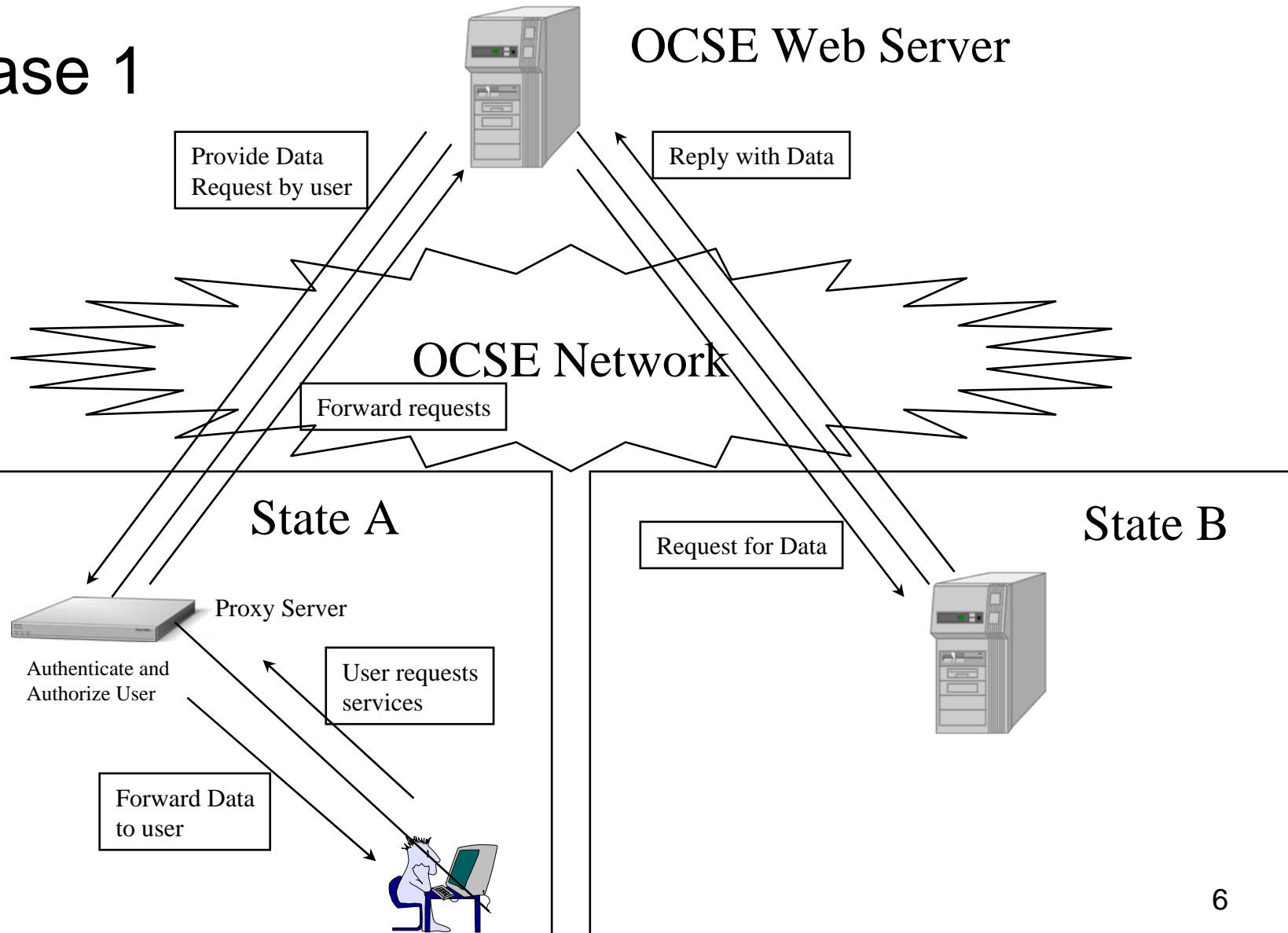
Web Services - Architecture

Phase 1

OCSE Web Server

OCSE Network

OCSE Router   State A

Proxy Server

OCSE Router   State B

Proxy Server

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Making a Request for Information

Phase 1

OCSE Web Server

Provide Data
Request by user

Reply with Data

OCSE Network

Forward requests

State A

State B

Request for Data

Proxy Server

Authenticate and
Authorize User

User requests
services

Forward Data
to user

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State Receiving and Returning Requested Information

OCSE Web Server

Reply with Data
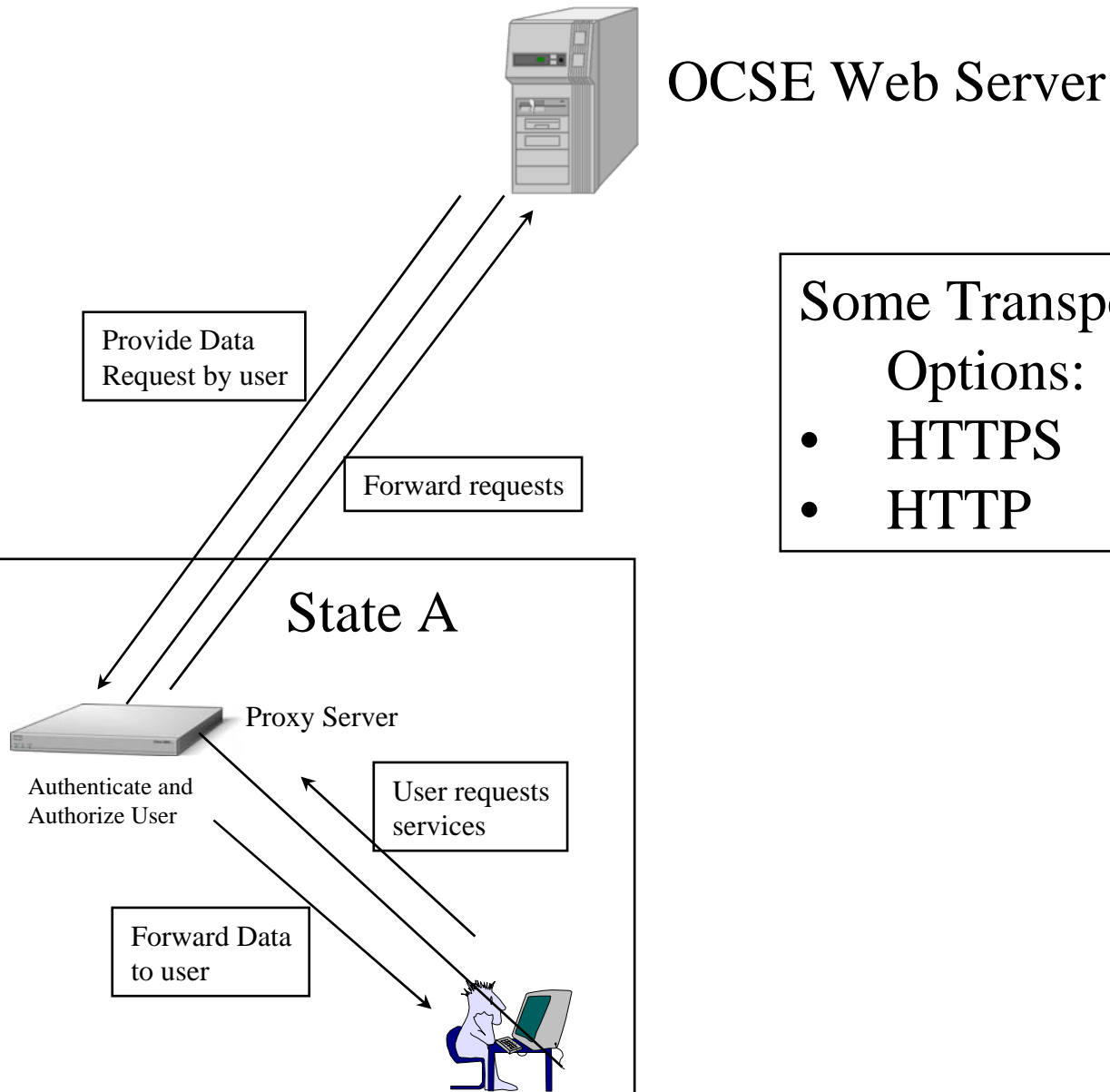
Some of the Communications Options:
- SOAP
- XML-RPC
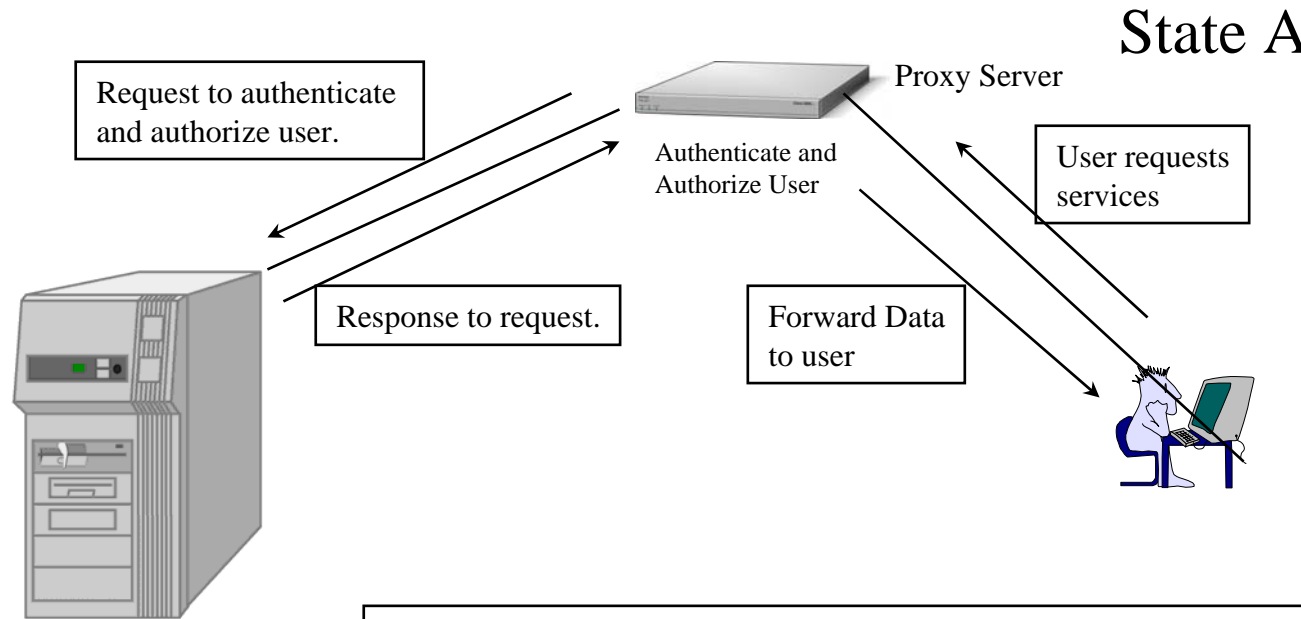- RPC

State B

Request for Data

State Making a Request for Information

OCSE Web Server

Some Transport Protocol
    Options:
- HTTPS
- HTTP

Provide Data
Request by user

Forward requests

State A

Proxy Server

Authenticate and
Authorize User

User requests
services

Forward Data
to user

State A - Authorization & Authentication of a User

State A

Request to authenticate and authorize user.

Proxy Server

Authenticate and Authorize User

User requests services
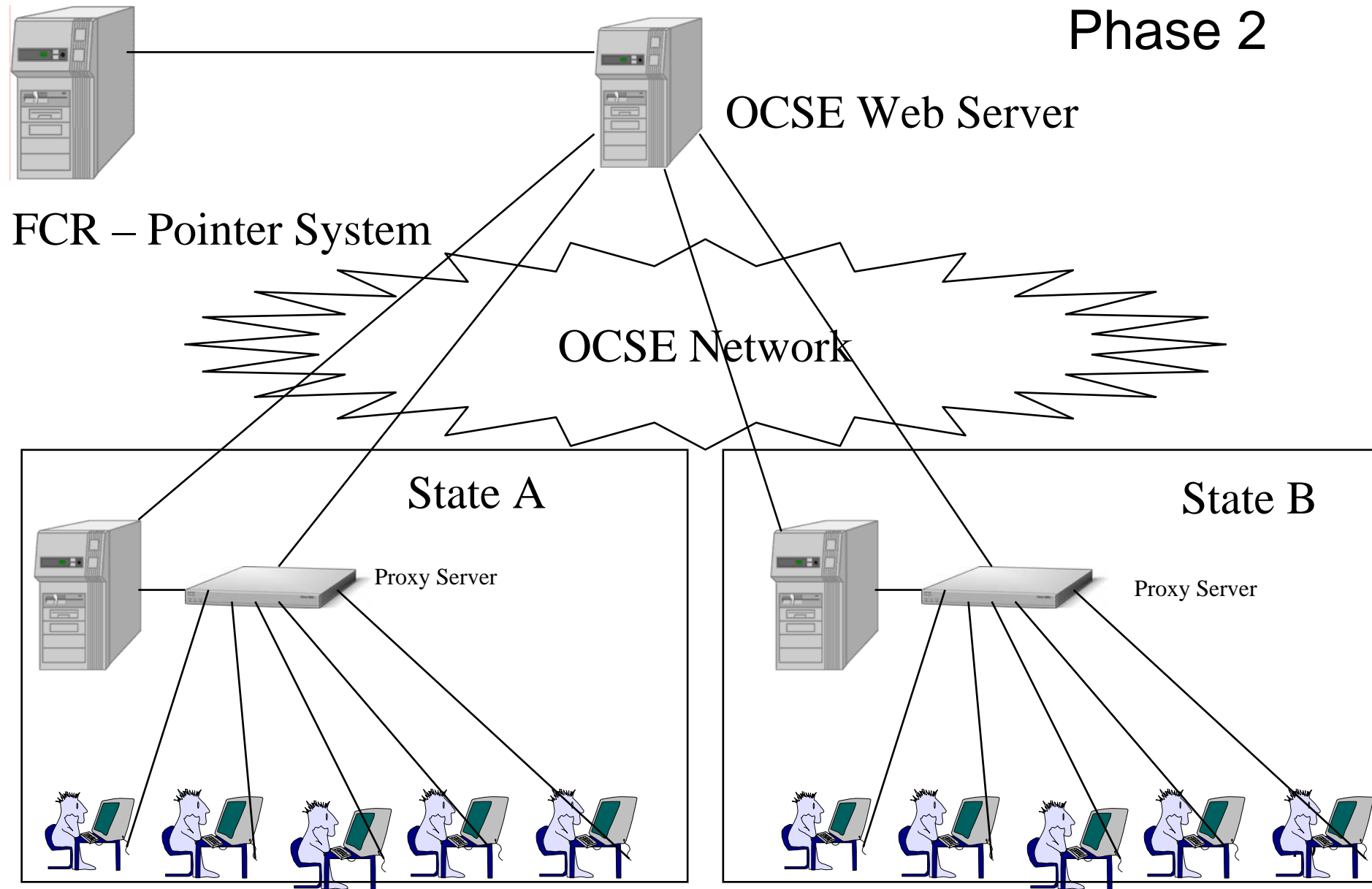
Response to request.

Forward Data to user

Some of the Authentication and Authorization Options:
- LDAP
- XML Digital Signature
- XCBF – XML Common Biometric Format
- SAML – Security Assertion Markup Language
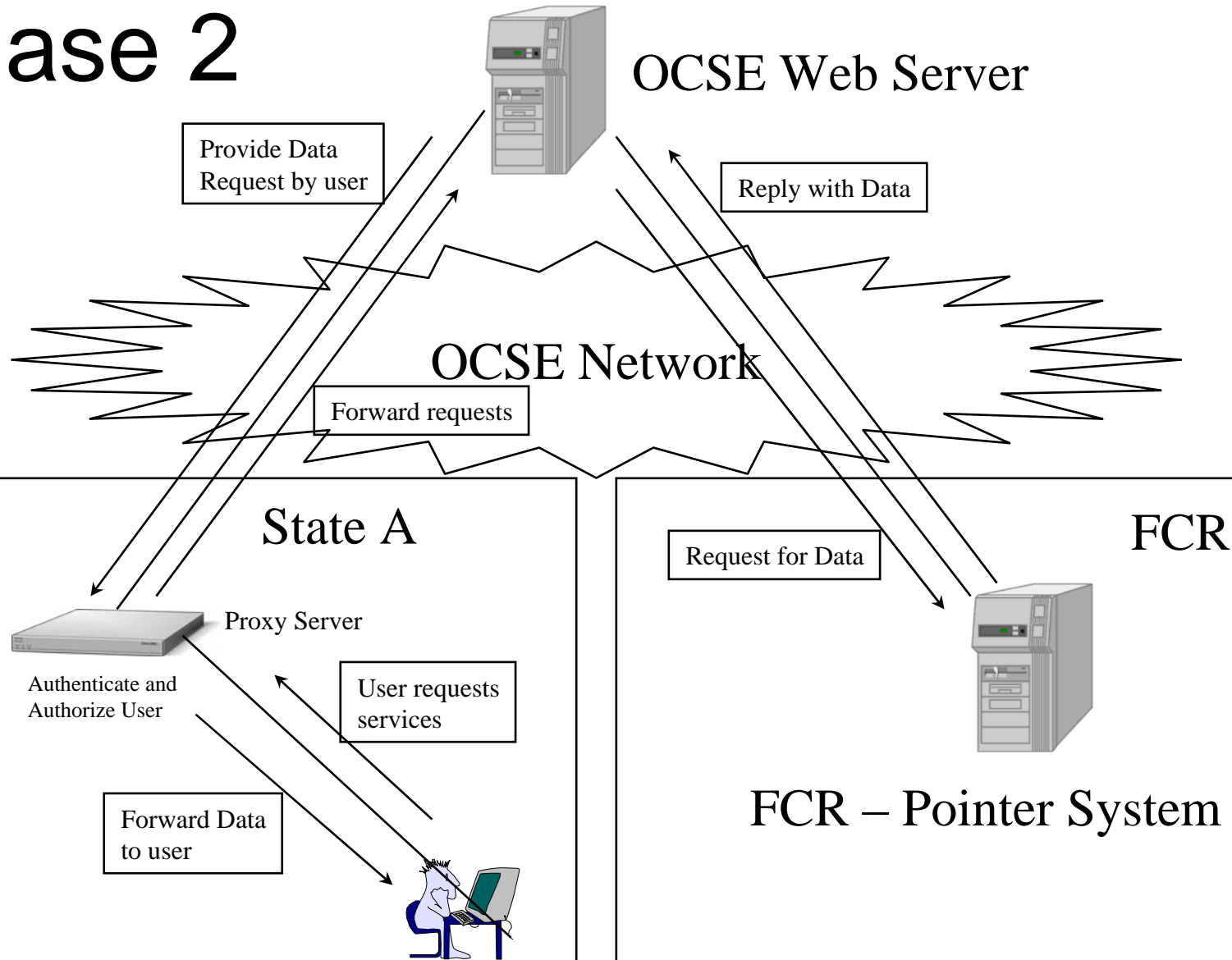- Other Authentication Methods

Web Services - Architecture

Phase 2

OCSE Web Server

FCR – Pointer System

OCSE Network

State A

State B

Proxy Server

Proxy Server

Making a Request for Information

Phase 2

OCSE Web Server

Provide Data
Request by user

Reply with Data

OCSE Network

Forward requests

State A

FCR

Request for Data

Proxy Server

Authenticate and
Authorize User

User requests
services

FCR – Pointer System

Forward Data
to user

Next Steps:

- Finalize workgroup consensus items
- Conduct technical workgroup meetings:
  - Software
  - Communications / Network
- Refine technical requirements